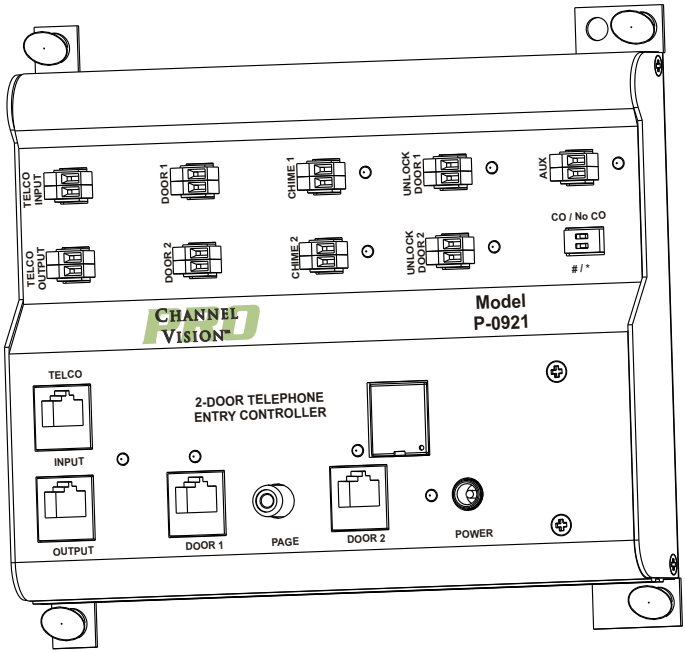
INSTRUCTIONS



P-0921
2-DOOR TELEPHONE ENTRY CONTROLLER

CHANNEL VISION™
PRO

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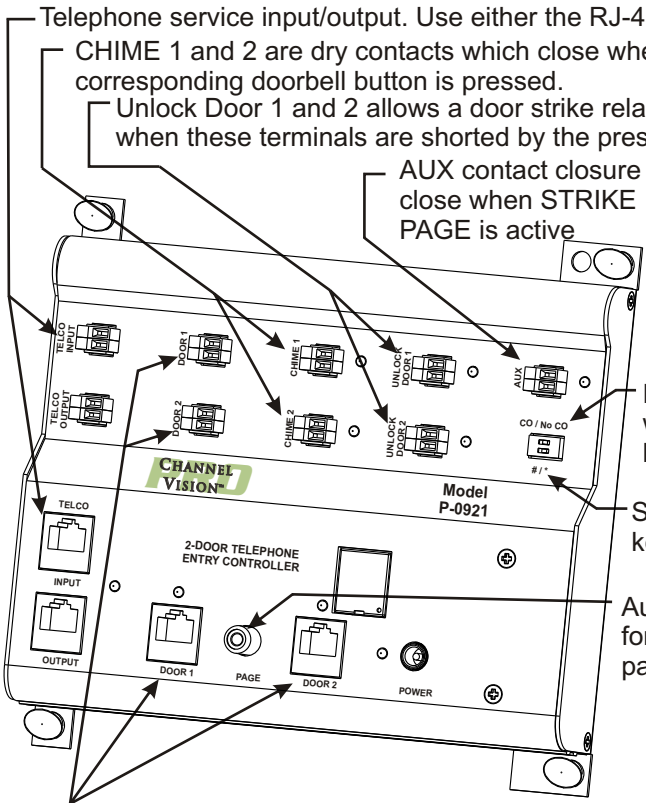
The **P-0921** provides communication between two different Channel Vision door intercoms and any phone in the house. When a visitor presses the doorbell button the phones in the house will respond with a distinctive ring. The home owner can then speak to the visitor by answering any of the ringing phones in the house.

Features:

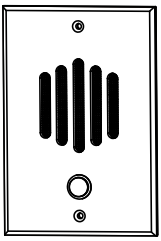
- Supports 2 Channel Vision door intercom stations
- Rings the phones when the doorbell button is pressed
- Integrated door chime contacts for triggering a traditional doorbell
- Programmable auxiliary dry contact closure
- Page output for whole-house paging system
- Can work with or without an active telephone line
- LED status indicators
- Quick and easy installation


Telephone service input/output. Use either the RJ-45 or screw terminals.
CHIME 1 and 2 are dry contacts which close whenever the corresponding doorbell button is pressed.
Unlock Door 1 and 2 allows a door strike relay to be triggered when these terminals are shorted by the press of a button.
AUX contact closure can be configured to close when STRIKE 1 is active OR when PAGE is active
Enables operation when no active CO line is present
Selects the activation key (either # or *)
Audio page output for whole-house paging systems
Door 1 and 2 are connections for Channel Vision Door stations.Use either RJ-45 or screw terminal connections.
TELCO INPUT
TELCO OUTPUT
DOOR 1
DOOR 2
CHIME 1
CHIME 2
UNLOCK DOOR 1
UNLOCK DOOR 2
AUX
CO / No CO
/ *
CHANNEL VISION
Model P-0921
2-DOOR TELEPHONE ENTRY CONTROLLER
TELCO
INPUT
OUTPUT
DOOR 1
PAGE
DOOR 2
POWER

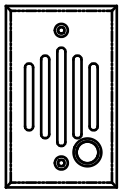
Other Telephone Entry Components

Door-Intercom Units:

Your telephone entry system will require at least one of the following compatible door-intercom stations. These door intercoms are constructed of 1/4" solid brass and are offered in 9 different finishes to match the most popular door hardware. They can be ordered with or without a hidden camera for covert surveillance. Both color and black & white camera options are available.



DP Intercom... is a large unit, measuring 6-1/2" tall by 4-3/8" wide, that was designed to look good in large-scale entry ways.

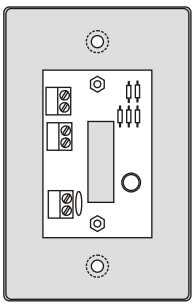


IU Intercom... is a single gang unit, measuring 4-1/2" tall by 2-3/4" wide, perfect for locations where the larger DP intercom unit is not desirable.

Part numbering: DP and IU Intercom Options

XX-0212

Blank	Channel Vision compatible (C-0920/P-0920/P-0921)
P	Panasonic compatible
212	White
222	Polished Brass
232	Antique Brass
242	Chrome
252	Oil Rubbed Bronze
262	Antique Copper
272	Satin Silver
282	Black
302	Satin Nickel
0	No camera
5	Black and white camera
6	Color camera
DP	Large size (6-1/2" x 4-3/8")
IU	Single-gang size (4-1/2" x 2-3/4")



TE110DS... is a dry contact relay that can be connected in-line between the P-0921 and the door intercom station. It is activated by the same commands that control STRIKE 1 and STRIKE 2.

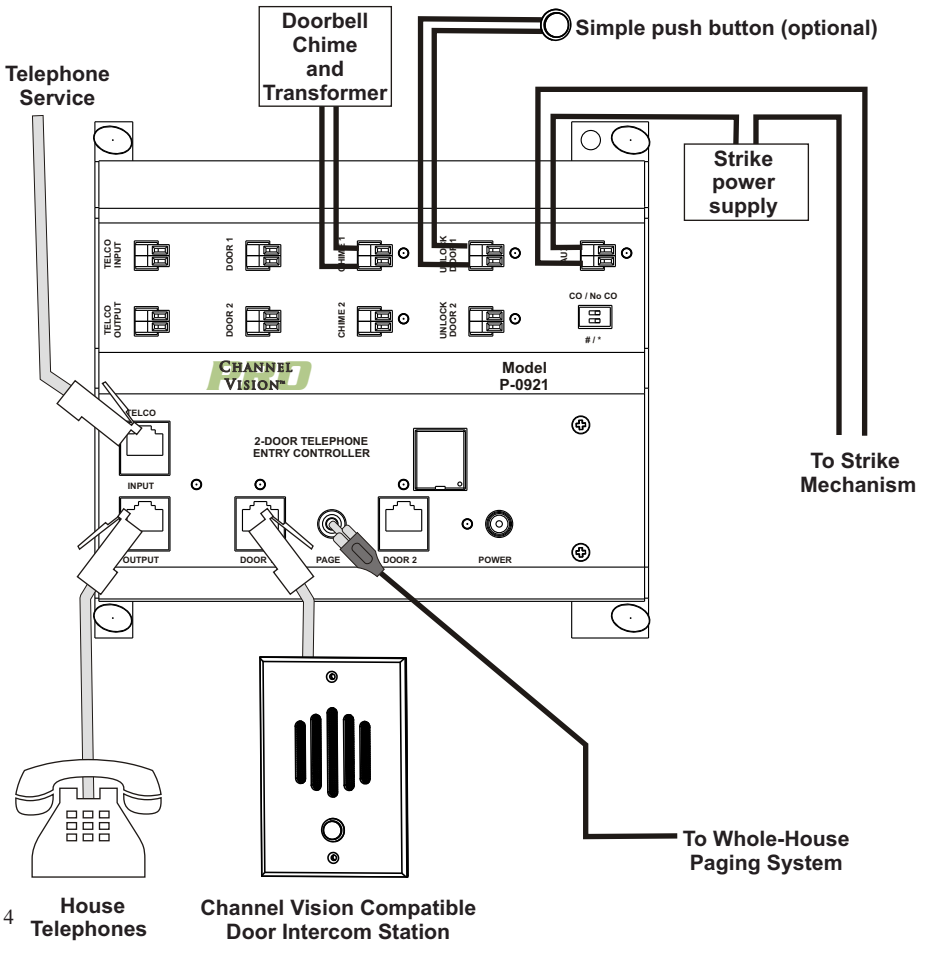
Basic Setup & Operation

When the button is pressed on the door-intercom, the phones in the house will ring. If a doorbell chime and transformer are connected to the CHIME contact, the doorbell chime will also be heard.

If the phone is answered within 20 seconds, it will be automatically connected to the door-intercom. If the phone is answered after 20 seconds simply press ## (or **) to be connected.
(Note: the activation key is determined by the switch labeled "# or *")

While speaking to the door-intercom, the STRIKE 1 contact can be activated by pressing #71 (or *71).
The Unlock Door terminals can be momentarily shorted with a simple push button which will activate the strike without the use of a telephone.

To send a whole-house page from any phone, press #5 (or*5).
(see the following page for a full list of user codes).



User Codes

User codes for P-0921	
Replace **x** with # or * depending on the position of the #/* switch.	
Key codes	Function
xxx1	Talk with DOOR 1
xxx2	Talk with DOOR 2
xx	*When on a phone call*: places call on hold & answers door -press again to go back *When not on a phone call*: answers the last door station activated
x5	Activate page out function
(the following codes work while you talk to the door)	
x71	Activate STRIKE 1 (can use AUX terminals or TE110DS module)
x72	Activate STRIKE 2 (Requires TE110DS module)

Examples: (assuming the P-0921 is set for # operation)

The user dials **##** - they will be connected to the last door station that was activated. Pressing **##** again will toggle to the other door.

The user dials **###1** - they will be connected to DOOR 1
(Then, while talking)
The user dials **#71** - strike 1 will be activated.

The user dials **###2** - they will be connected to DOOR 2
(Then, while talking)
The user dials **#72** - strike 2 will be activated.

Call Waiting functions

Situation: Doorbell is pressed when you are already on the phone.
You will hear: You will hear call waiting beeps, press ## (or **) to be connected.

Situation: You have placed the caller on hold and switched to the door intercom.
You will hear: Occasional beeps reminding you that a call is holding.

Situation: You are speaking to the door intercom when an incoming phone call is detected by the system.
You will hear: Beep, beep, pause... Beep, beep, pause... etc.

Situation: The doorbell is pressed at the same time as an incoming call is detected.
When you pick up the receiver: you will be connected to the incoming call.
You will hear: Beeps corresponding to the distinctive ring for the door intercom being activated.

Programming Codes

To program the advanced options of the P-0921 pick up any telephone in the system and enter the touch-tone codes listed in the chart below.

Default Settings:

CHIME 1 and 2 are momentary closure.
STRIKE 1 and 2 is set for a 3 second closure period
AUX is configured to provide contact closure when STRIKE 1 is active
Distinctive Ring is set for option 3

CHART 1

Programming procedures for P-0921

x 0 y z

FIRST: Call the door station from a telephone (press ## or **).
Replace **x, y** and **z** with numbers shown below. **When finished**, press # or * and listen for confirmation beep. (See example below).

z
- 0 Momentary closure for strikes and chimes contacts (300 msec)
- 1-9 For CHIME 1 & CHIME 2 (See CHART 1-A)
- 1-9 For STRIKE 1 & STRIKE 2 (See CHART 1-B)
- 1-5 For distinctive ring selection (See CHART 1-C)
- 1-2 Press 1 for contact closure when STRIKE 1 is active, Press 2 for contact closure when Page is active.

y
- 1 To program CHIME 1
- 2 To program CHIME 2
- 3 To program Distinctive Ring
- 6 To program AUX contact
- 7 To program STRIKE 1
- 8 To program STRIKE 2

0
- 0 Press 0 to enter the programming mode, press # (or*) to save changes. Hang up the phone to exit without saving.

x
- # If the P-0921 is set for # operation (determined by #/* switch)
- * If the P-0921 is set for * operation (determined by #/* switch)

CHART 1-A

CHIME duration	
Option	Duration of contact closure
1	3 seconds
2	5 seconds
3	8 seconds
4	16 seconds
5	25 seconds
6	60 seconds
7	120 seconds
8	180 seconds
9	240 seconds

CHART 1-B

STRIKE duration	
Option	Duration of contact closure
1	3 seconds
2	5 seconds
3	8 seconds
4	16 seconds
5	25 seconds
6	60 seconds
7	120 seconds
8	180 seconds
9	240 seconds

CHART 1-C

Selecting a distinctive ring				
	# operation		* operation	
	Door 1	Door 2	Door 1	Door 2
1	2/1	2/2	2/3	2/4
2	2/3	2/4	2/1	2/2
3	3	5	2/3	2/5
4	2/3	2/5	3	5
5	3	5	3	5

1st ring/2nd ring examples:
2/1 = “ring, ring, ... ring”
2/3 = “ring, ring, ... ring, ring, ring”

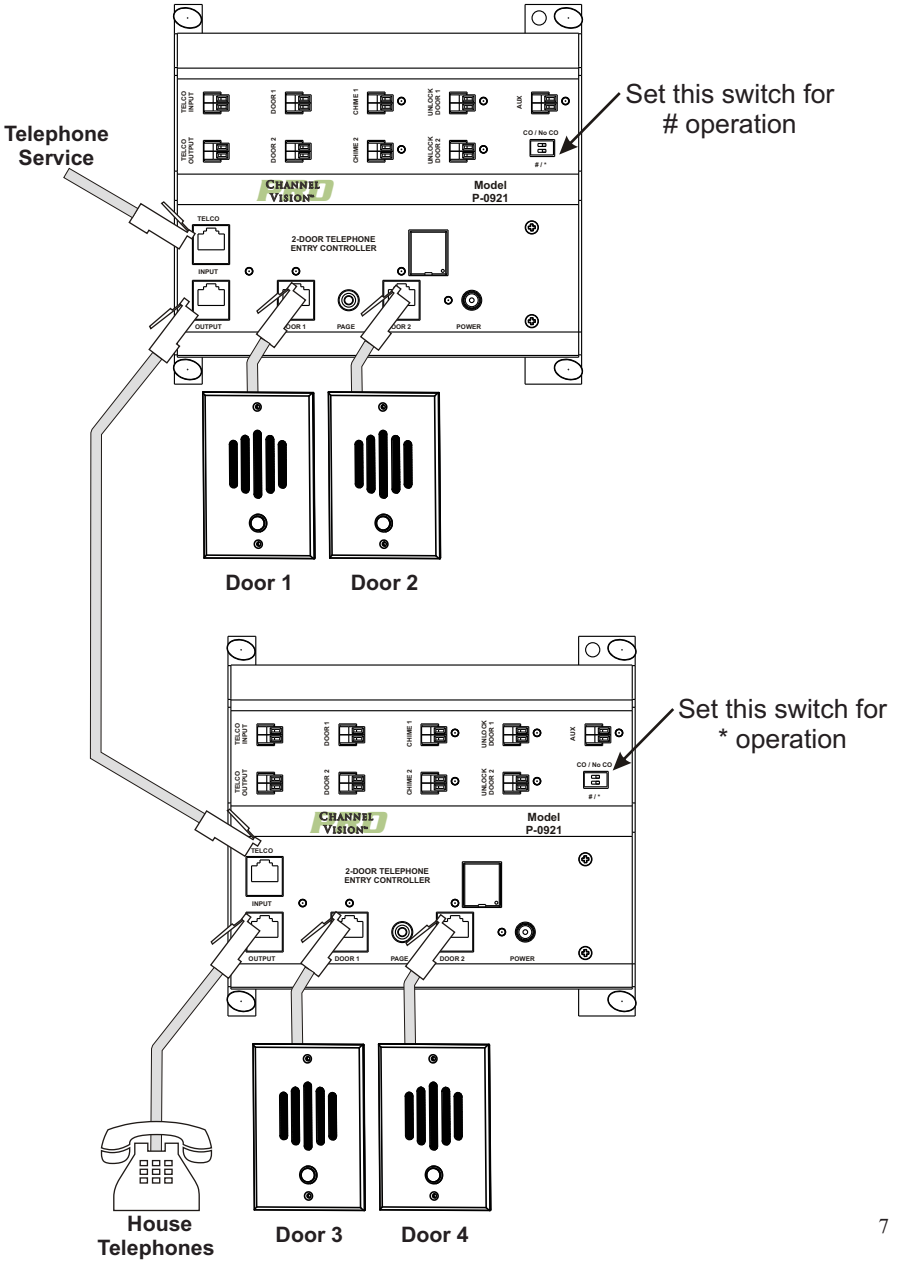
Example: (assuming the P-0921 is set for # operation)
First, access the intercom system by pressing ##.

To set STRIKE 2 to operate for 8 seconds, pick up any touch-tone phone in the system and dial: #073# (listen for confirmation tone)

To set STRIKE 2 to operate for 25 seconds, pick up any touch-tone phone in the system and dial: #085# (listen for confirmation tone)

Four Door Application

Two of the P-0921 can be used to serve up to 4 different door-intercoms. Simply connect and configure the units as shown below. Note: be sure to set one unit for # operation and the other unit for *.

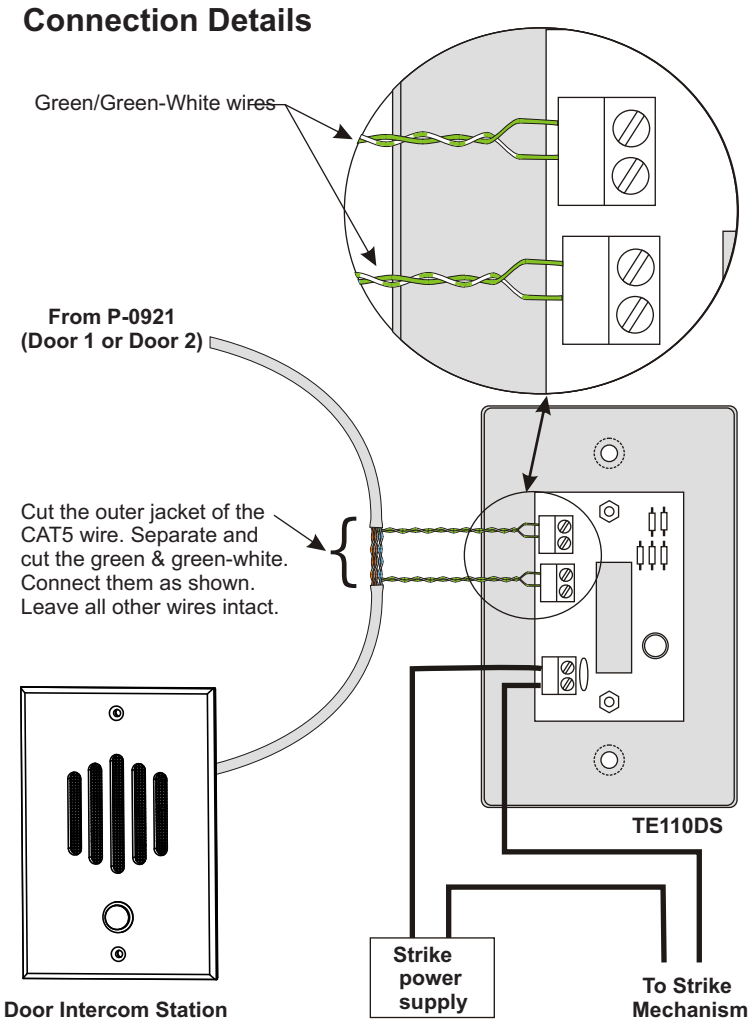


Using the TE110DS

The TE110DS is not always required when using the P-0921, because the P-0921 has a built in AUX relay that can be programmed to control one electronic door strike. However, it may still be used for applications that require a remote contact closure that is located near the door intercom station.

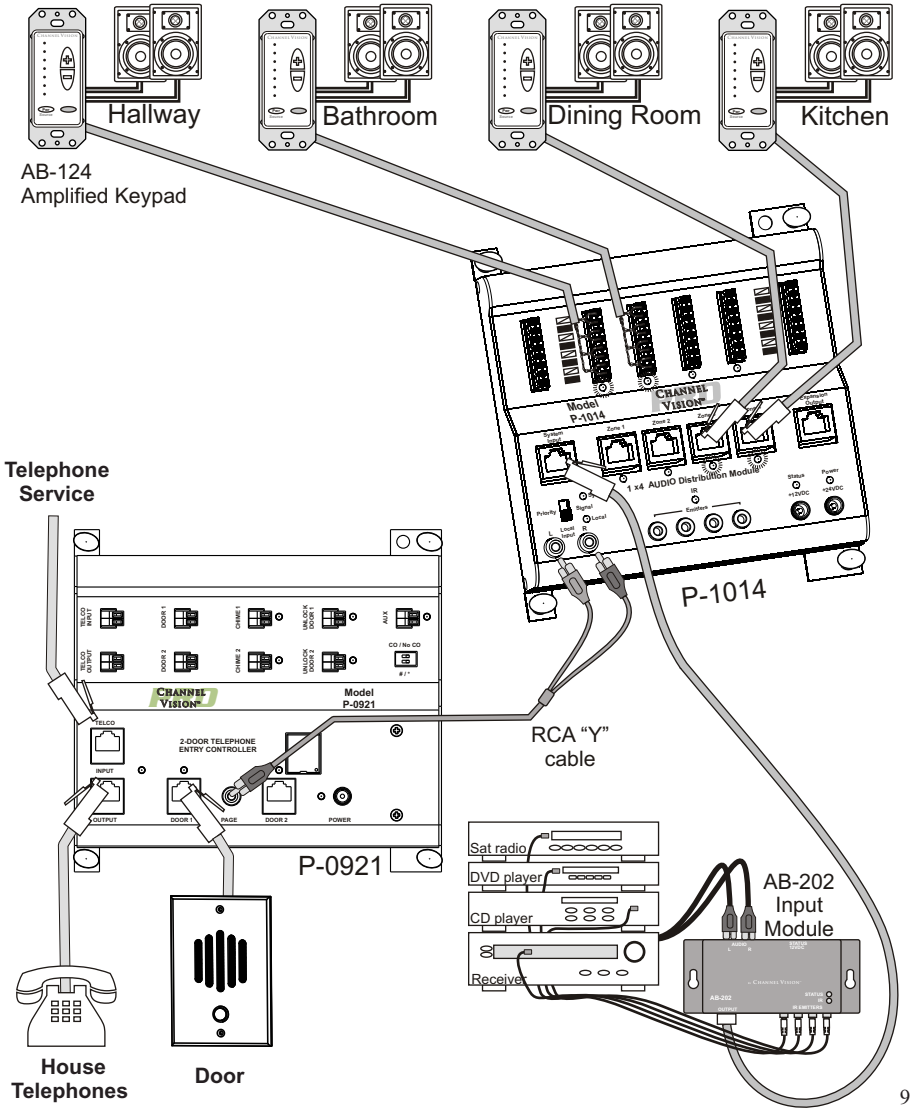
If using the RJ-45 connection on the P-0921, simply connect the green and green-white wires from the CAT5 to the terminal inputs and outputs of the TE110DS as shown below. If using the screw terminal connectors on the P-0921, simply use the same

Connection Details


Green/Green-White wires
From P-0921
(Door 1 or Door 2)
Cut the outer jacket of the CAT5 wire. Separate and cut the green & green-white. Connect them as shown. Leave all other wires intact.
TE110DS
Strike power supply
To Strike Mechanism
Door Intercom Station

Using the Page Out Function

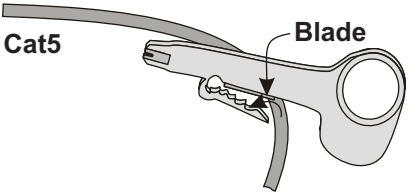
One major benefit of the 2-Door Telephone Entry System is that many different components can be integrated with it. The system below integrates the Page Out feature of the P-0921 with the local audio input on the P-1014 1x4 CAT5 Audio Distribution Module. When a page is sent from the P-0921 it will interrupt the main audio source feeding the P-1014 so the page will be heard through the audio system's speakers. This is a great way to make pages audible in multiple areas throughout the home.



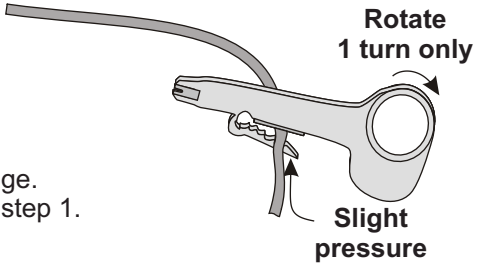
Stripping and Connecting CAT5 Wire

CAT5 cable should be stripped with a proper stripping tool, such as Channel Vision's J-110 tool.

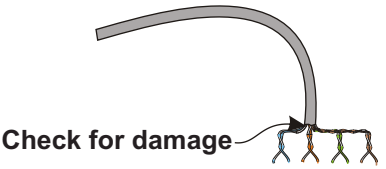
1. Place the CAT5 between the blade and the first notch of the J-110 tool.



2. Rotate the tool only once. Multiple turns will cause you to cut into the inner wires.

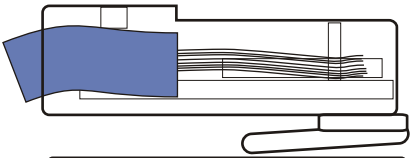


3. Inspect the inner wires for damage.
If any wires are cut start over at step 1.

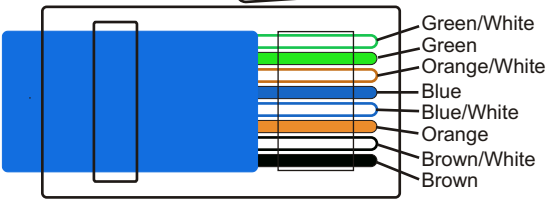


TIA-568A RJ-45 Modular Plug

Side view:



Top view:



Troubleshooting

1) **When the doorbell is pressed the phones do not ring, but you can activate and speak to the door station by pressing *1** (or #1 depending on setup).

   a. Make sure that you have the correct power supply and that it is supplying 12 VAC.

   b. Measure the AC voltage on the “TELCO Output” terminals at the time when the unit should be ringing (just after the doorbell button is pressed). There should be between 70 - 90 VAC across the terminals during a ring cycle.

2) **The phones in the house cannot communicate with the door station**.

   a. Make sure the power supply is plugged in.

   b. Make sure the phones are connected to the “TELCO Output” on the telephone entry controller. To be sure of this, connect one phone directly to the “TELCO Output” screw terminals and test the unit.

3) **A static or “screeching” noise is heard when speaking to the door station.**

   a. If DSL is present in the system, install a DSL filter (model P-0411) on the phone line before the telephone entry controller.

4) **The TE110DS does not activate.**

   a. Make sure you’re pressing the correct key sequence.

   If already speaking to the door station, just press *71 (or #71).

   If not already speaking to the door station, press *1*71 (or #1#71).

   b. Measure the voltage on the screw terminals labeled “INTERCOM”

   When the system is idle, there should be 1 VDC on the terminals.

   When speaking to the door station, there should be about 6 VDC on the terminals.

   When the TE110DS is activated there should be at least 10 VDC on the terminals.

Specifications:

Connectors:	Screw terminals and RJ-45 (TIA 568A)
REN:	0.1
Ring Output:	>5 (capable of ringing >10 phones with a REN of 0.5)
Power Supply:	12VAC 500mA
Dimensions:	6.5” x 7.0” x 1.5”

Specifications subject to change without notice.

CHANNEL VISION™

2 Year Limited Warranty

Channel Vision Technology will repair or replace any defect in material or workmanship which occurs during normal use of this product with new or rebuilt parts, free of charge in the USA, for two years from the date of original purchase. This is a no hassle warranty with no mail in warranty card needed. This warranty does not cover damages in shipment, failures caused by other products not supplied by Channel Vision Technology, or failures due to accident, misuse, abuse, or alteration of the equipment. This warranty is extended only to the original purchaser, and a purchase receipt, invoice, or other proof of original purchase date will be required before warranty repairs are provided.

Mail in service can be obtained during the warranty period by calling (800) 840-0288 toll free. A Return Authorization number must be obtained in advance and can be marked on the outside of the shipping carton.

This warranty gives you specific legal rights and you may have other rights (which vary from state to state). If a problem with this product develops during or after the warranty period, please contact Channel Vision Technology, your dealer or any factory-authorized service center.

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